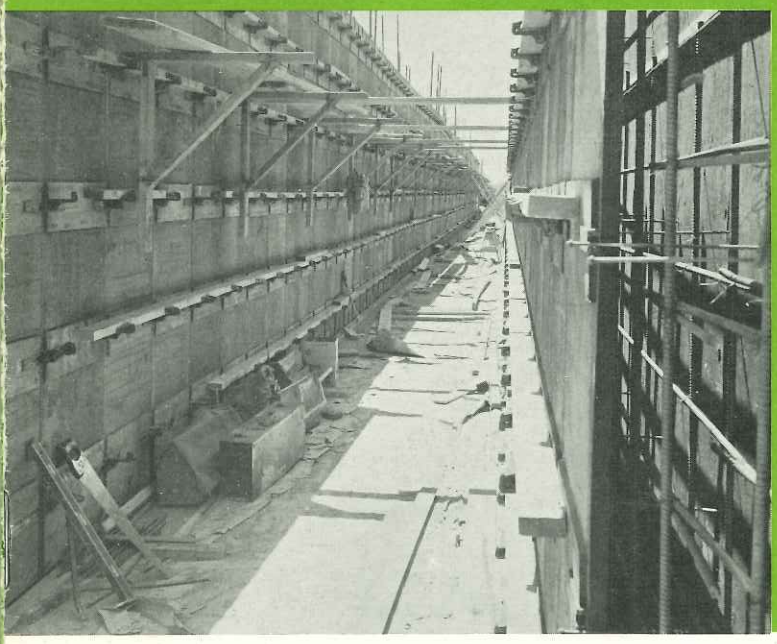
25+317
249/189

U. S. PATENT OFFICE
APR -3 1959
DIVISION 15

SUPERIOR

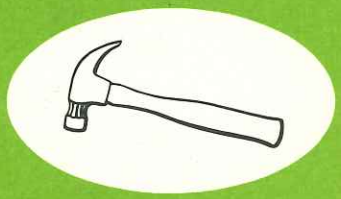
ALL-PLY
Patented
PANEL FORMS

FOR SIMPLIFIED, FAST CONCRETE FORMING



Only ONE working part, the Combination Clamp, aligns and locks form, receives tie rod, and holds liner.

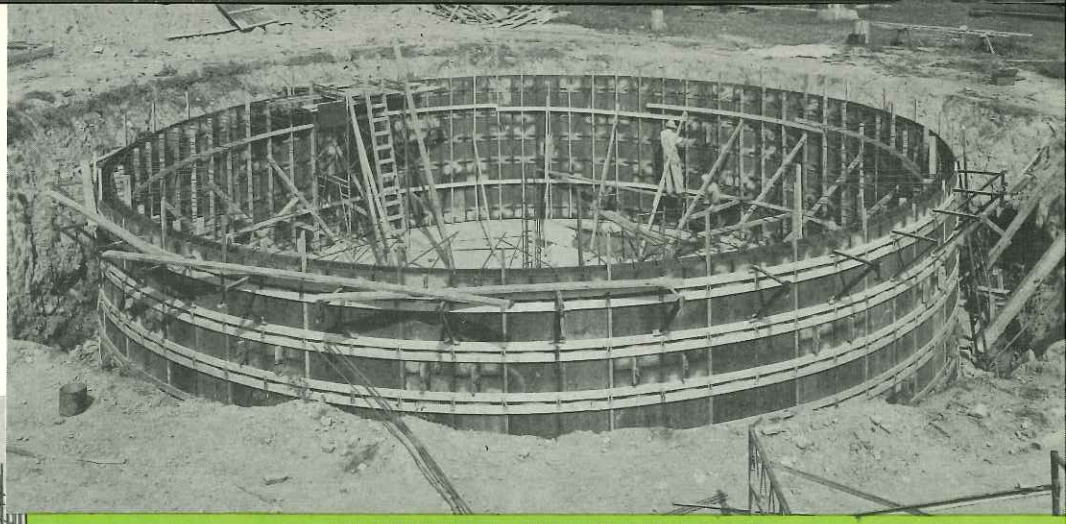
A HAMMER is the only tool required with All-Ply Panel Forms.



SUPERIOR
Concrete Accessories, Inc.

9301 King St., Franklin Park, Ill. (A suburb of Chicago)
New York Office/ 1775 Broadway, New York 19, N.Y.
Houston Office/ 4101 San Jacinto, Houston 4, Texas.
*Pacific Coast Plant/*2100 Williams St., San Leandro, Cal.

SUPERIOR ALL-PLY Patented PANEL FORMS



CIRCULAR forming job with All-Ply Panels

WIDE RANGE OF APPLICATIONS . . . from ordinary foundations to intricate high walls as shown here.

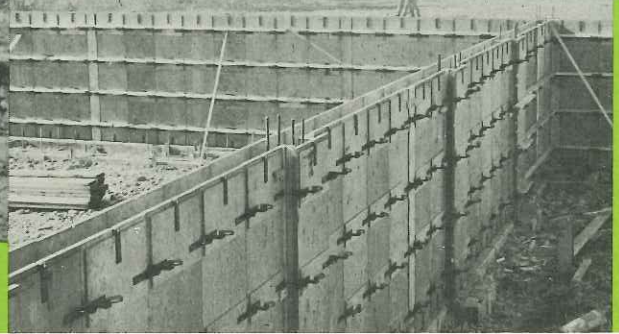
Erecting forms on HIGH WALLS for water reservoir

BATTERED walls demonstrate the versatility of ALL-PLY panels

RESIDENCE foundation forms are erected quickly

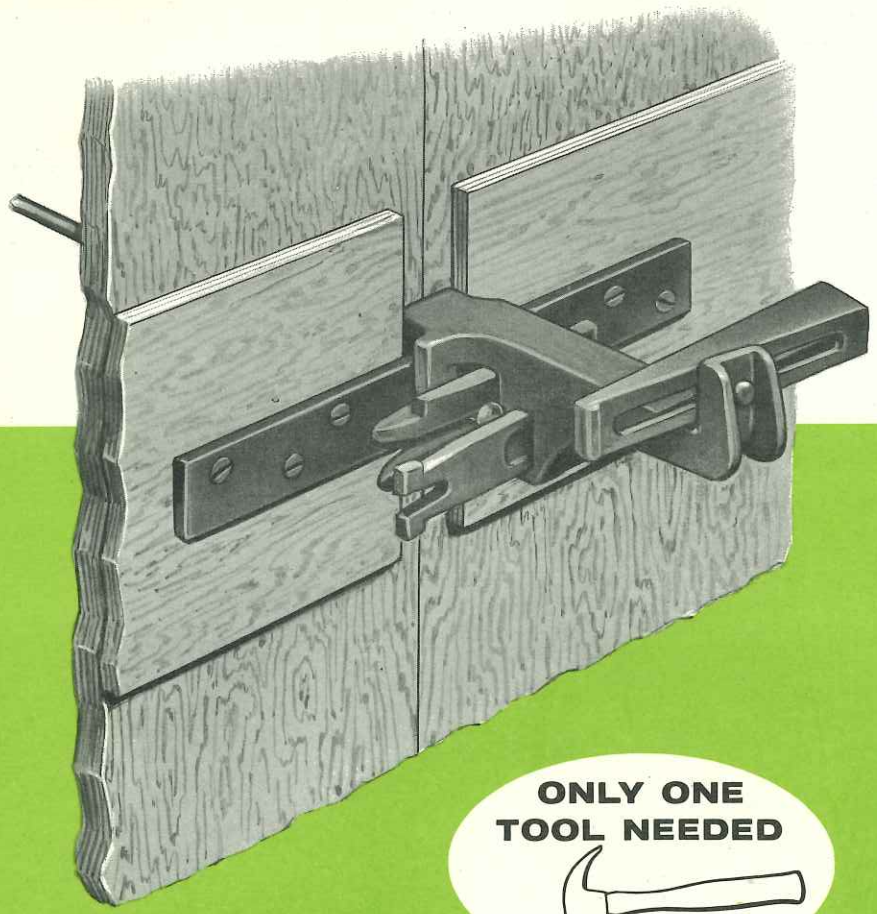
SIMPLICITY of system speeds forming

POURING operation—note absence of outside liners



LARGE THEATRE job — note minimum alignment and bracing

SUPERIOR ALL-PLY Patented PANEL FORMS



NEWEST PRINCIPLE IN PANEL FORM DESIGN

One System for ALL Types of Forming – – – –

Ready for use, SUPERIOR All-Ply Panel Forms are made of exterior grade 1⅛" plywood, backed at strategic areas with ½" plywood. Conventional metal or wooden frames are not required as All-Ply design provides great strength and rigidity. A special sealer on all surfaces and edges assures long life.

The basis of All-Ply superiority and speed is ONE working part, the unique 4-way Combination Clamp which does 4 separate jobs, with a hammer as the only tool required for erection and stripping (see page 5). A great many reuses are possible and the absence of frames permit easy stacking in minimum space.

All-Ply Panels may be used for forming straight, curved, or battered walls, as well as pilasters, etc. from ordinary foundations to high walls. Weight is less than 5 lbs. per sq. ft. Panels are specially designed for use with SUPERIOR Snap Ties as described below. Our experienced staff is available to prepare suggested layouts, complete estimates, and quotations.

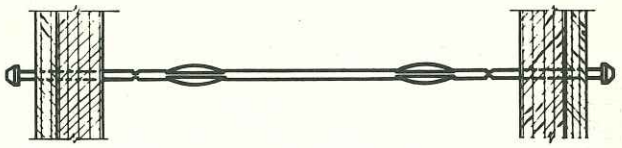
SIMPLIFIED CONCRETE FORMING

ERECTS *FAST*
STRIPS *FAST*

TRANSPORTATION

Because the overall thickness of All-Ply Panels, including straps is only 1⅞", a truck can carry more than *twice* the square footage of All-Plys, compared with conventional framed panels.

SUPERIOR FORM TIES



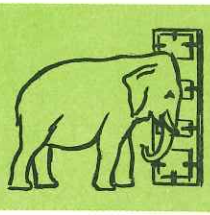
SUPERIOR Snap Ties of 3000 lb. or 5000 lb. safe load capacities are furnished for use with All-Ply Panels. These Snap Ties are available with breakbacks of ⅛" to 1" as required.

SUPERIOR ALL-PLY Patented PANEL FORMS

FEATURES

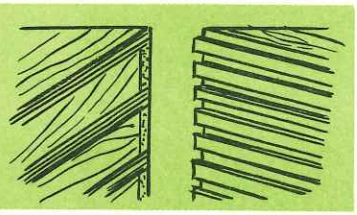
STRENGTH

1⅛" plywood with ½" plywood backing has 8 times the strength of ¾" plywood.

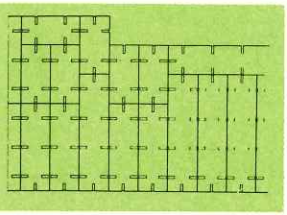


LESS BULK–

Stores and transports in fraction of space occupied by framed panel.

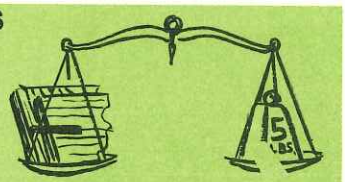


PANELS MAY BE ERECTED HORIZONTALLY OR VERTICALLY



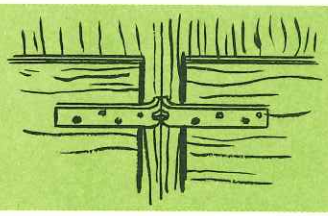
WEIGHS LESS THAN 5 LBS. PER SQ. FT.

Panels can be handled easily by one man.



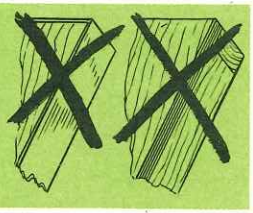
HOOK STRAP

Detail at right shows straps of two adjacent panels ready to receive Combination Clamp.



NO METAL OR WOODEN FRAMES

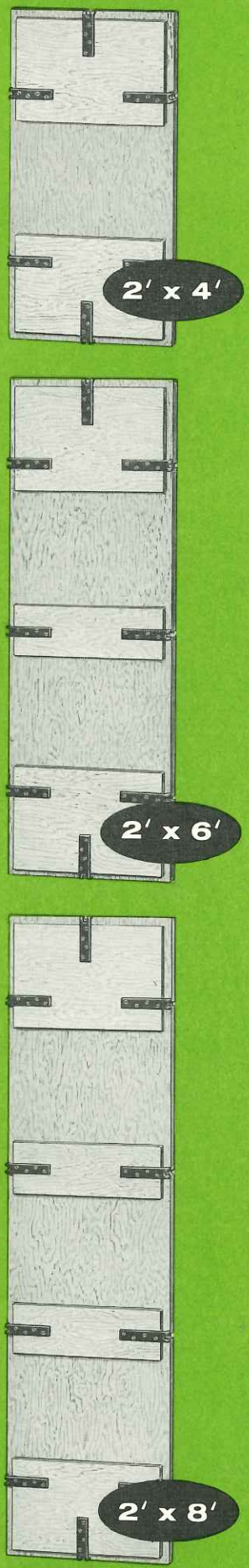
but great rigidity and easy to handle.



FLUSH JOINTS

prevent unsightly marks on concrete face.

3 STANDARD SIZES



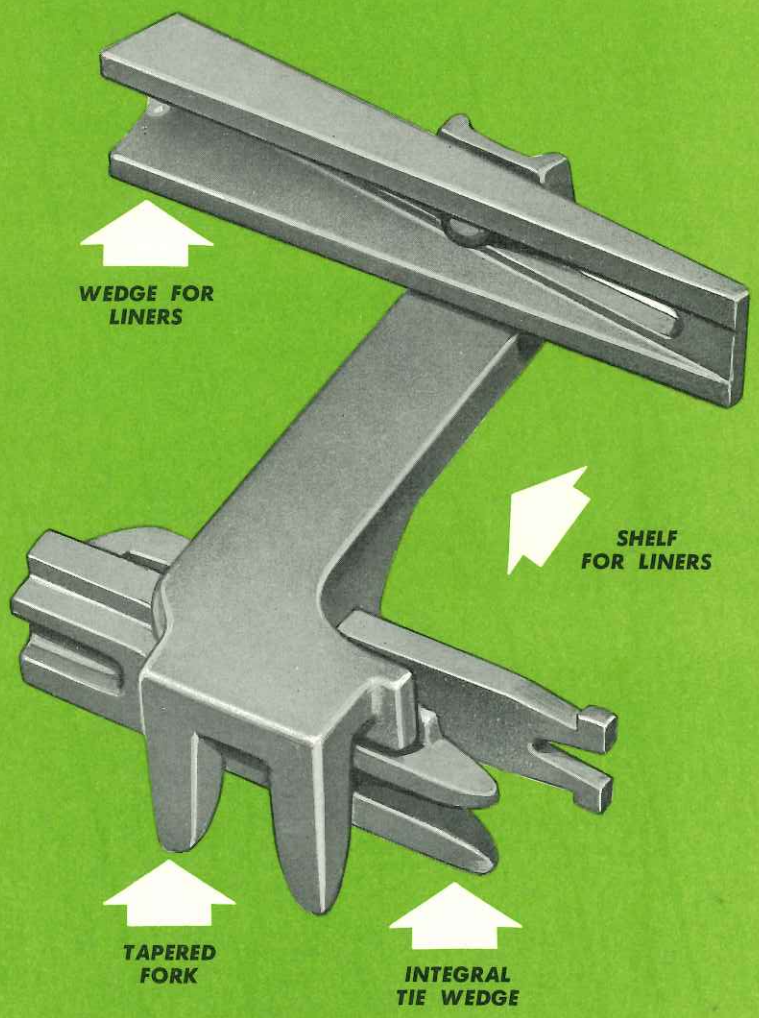
Other Sizes Readily Available

SUPERIOR

ALL-PLY

Patented

PANEL FORMS



Only **ONE** WORKING PART

THE COMBINATION CLAMP

Performs 4 Functions

1 **Draws the Panels Together Tightly and Locks Them.**

The tapered fork is seated in the two adjacent hooks of the straps and driven home with a hammer (illus. A). The tapered design draws and locks the panels tightly together preventing seepage.

2 **Secures the Snap Tie and Lines Up Panel Faces.**

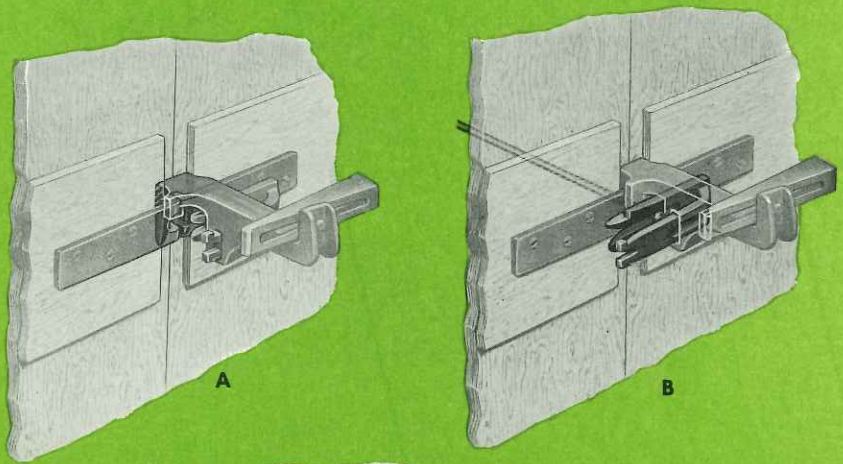
After the panels are erected on one side, the Snap Tie is inserted through a notch in the panel (illus. B). This may be done as each panel is erected, or after an entire section of panels is in place. Snap Ties can also be inserted from the *outer* face of the panels at any stage of erection. The integral tie wedge is then driven to engage the head of the tie, which acts both as a spreader and a tie. This same wedge also lines up the faces of the joined panels.

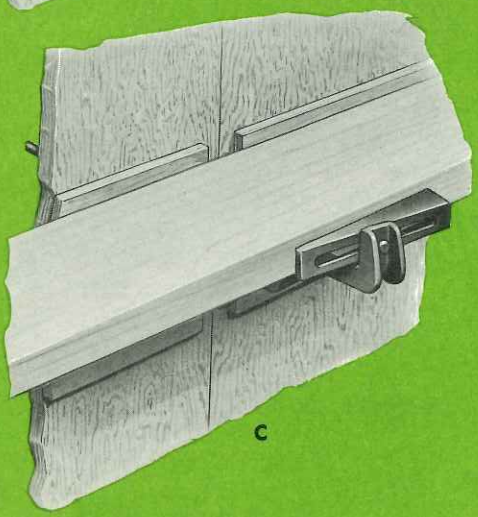
3 **Secures Liner.**

All-Ply forms require a minimum number of liners (single 2 x 4s). The Integral Liner Wedge secures and draws up liners as shown in illustration C. When liners are not used, the Liner Wedge does not interfere in any way with seating the clamp and securing the tie.

4 **Provides Shelf.**

The Combination Clamp provides a convenient shelf for extremely simple liner placement as illustration C shows. When a scaffold is required, a specially designed Scaffold Bracket, as shown on back cover, may be used.





A TAPERED FORK
Locks Panels

B INTEGRAL TIE WEDGE
Engages Head of Tie

C INTEGRAL LINER WEDGE AND SHELF

SUPERIOR

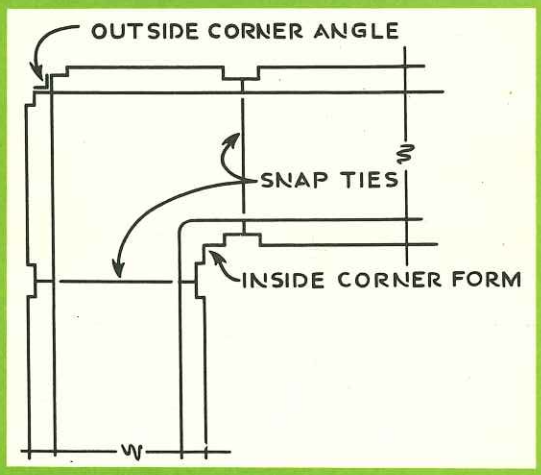
ALL-PLY

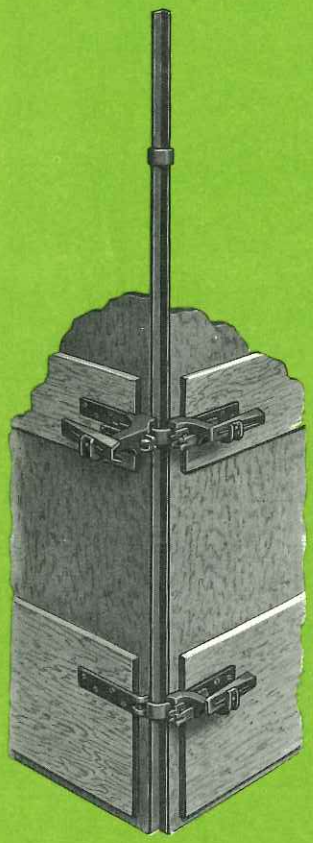
Patented

PANEL FORMS

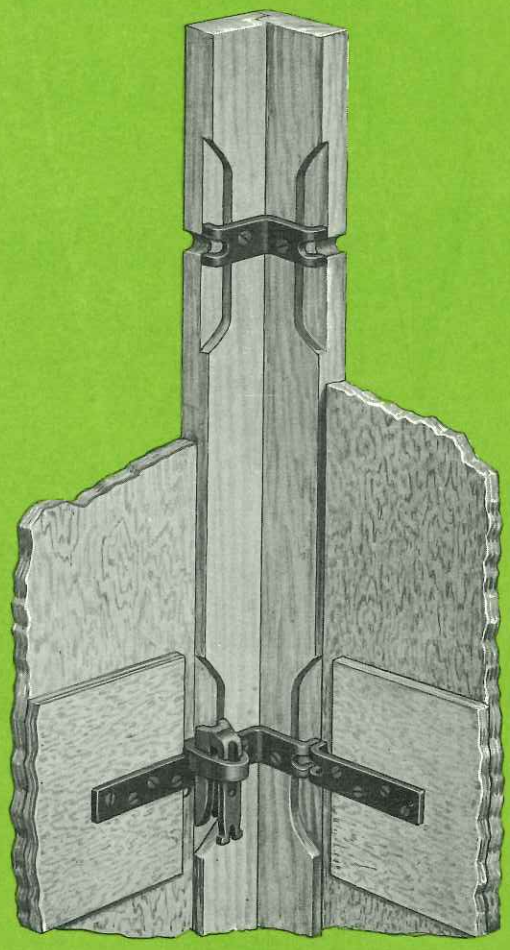
FORMING CORNERS

Forming inside and outside corners is fast and simple with the corner hardware and methods as described below. Standard inside or outside corners as well as job-built corners will meet any job condition.

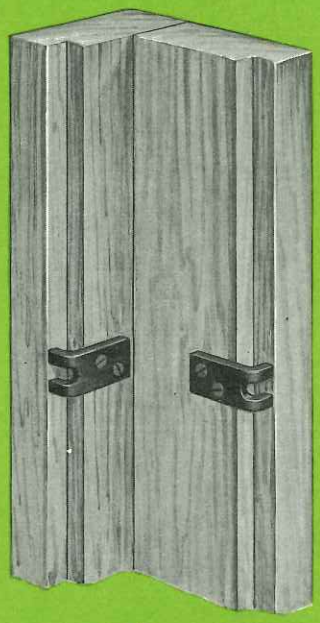




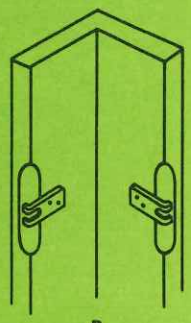
OUTSIDE CORNERS



INSIDE CORNERS



A



B

BUILT-UP CORNERS

OUTSIDE CORNERS

Outside corners are formed by using a prefabricated steel angle. The Combination Clamp securely fastens the panels to the corner angle as illustrated above.

INSIDE CORNERS

Inside corner forms of various sizes are available, however the 4″ x 4″ corner is the most commonly used size. These corners are made of 1⅝″ plywood, with hook straps attached. Inside Corner Clamps attach the panels to the corner form as shown, and also secure the form tie.

BUILT-UP CORNERS

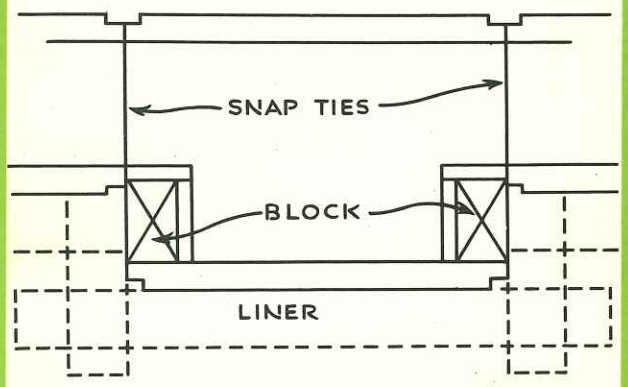
If electric power is available on the job, these corners can readily be built-up on the site from any 2″ lumber (photo A). Temporary hook straps are easily secured to the built-up corner, and thus many unforeseen variations in forming can be easily handled right on the spot with no loss of time. If power is not available, job-built corners can be made by notching out with a hand ax, as shown above (Illustration B).

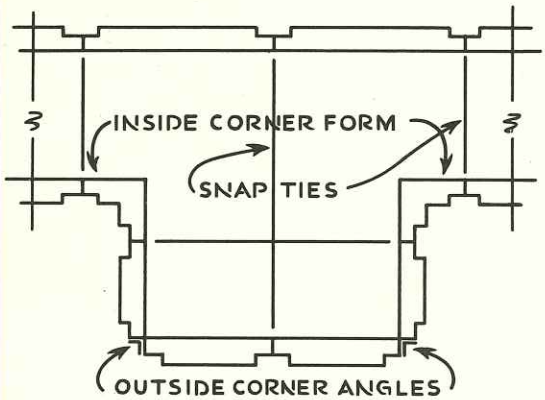
FORMING PILASTERS

The sketches below show two of the several simple methods by which pilasters may be formed.

SUPERIOR ALL-PLY Patented PANEL FORMS

This sketch shows one of the many variations possible using standard All-Ply panels as indicated.



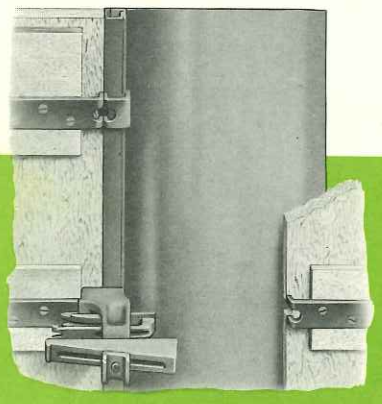


This method, or a variation, can be used to form any pier, stub wall, or any projected area, regardless of size, by changing the sizes or number of All-Ply panels.

FILLERS

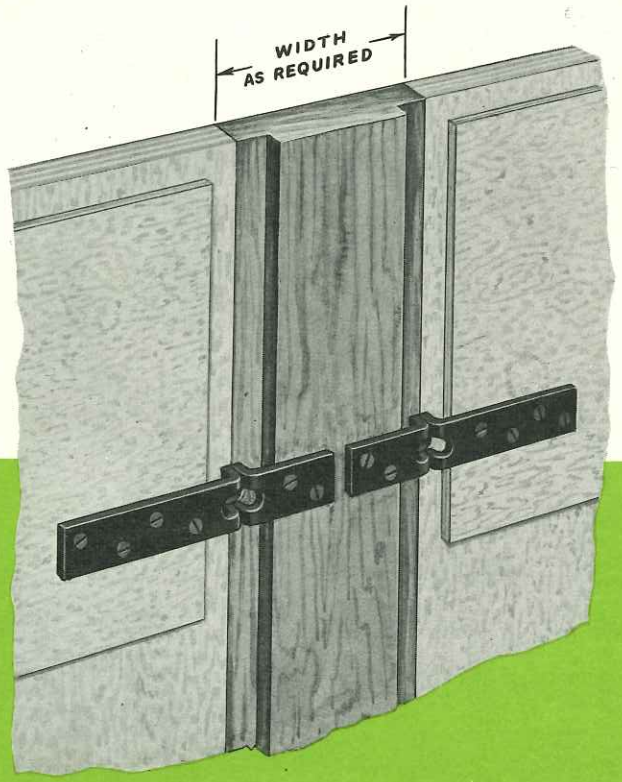
ADJUSTABLE SPRING STEEL PLATE FILLER

This filler plate is for use where the opening to be filled is less than 10". The filler is attached to an adjacent panel with the combination clamp, the plate resting against the inside face of the other panel. Because the plate is of spring steel specially shaped at the edge, it bears tightly against this panel when the liner is driven up. Only a very slight offset, the thickness of the plate, appears on the wall face.



JOB-BUILT FILLERS

While All-Ply panels can be furnished in various sizes, one of the many advantages of this system is the ease in which a filler can be made up on the job. Two inch lumber of required width is notched as shown below and hook straps attached. If electric power is not available, notches can be made as on a job-built corner.



SUPERIOR ALL-PLY Patented PANEL FORMS

Engineering Service

Our experienced engineering department is available to prepare layouts and to suggest ways to save time and money on formwork. In addition, tie quantities and sizes will be determined.

Field Service

If desired, factory and field-trained representatives are available to help start the job. Due to the simplicity of the All-Ply system any crew with minimum experience, will be able to make fast progress.

OTHER SUPERIOR PRODUCTS

For Ordinary Foundations
- Snap Ties
- Band Clamps
- Band Iron
- Band Tighteners
- Panel Lock Bolts
- Plyhole Covers

For Architectural Concrete
- A. C. Form Ties

For Engineering Structures
- Coil Ties
- Continuous Coil Rods
- Coil Wing Nuts
- Corner Brackets
- Coil Loops
- Cone Nuts
- Hex Nuts (Rod Couplings)
- Paper Tubing
- Riser Frames
- Rod Clamps
- Rod Tighteners
- Rod Pullers
- Screw Anchors
- Tilt Lock Clamps

For Tilt Up
- Pick Up Inserts
- Bracing Anchors
- Adjustable Braces
- Lifting Eye Bolts and Angles

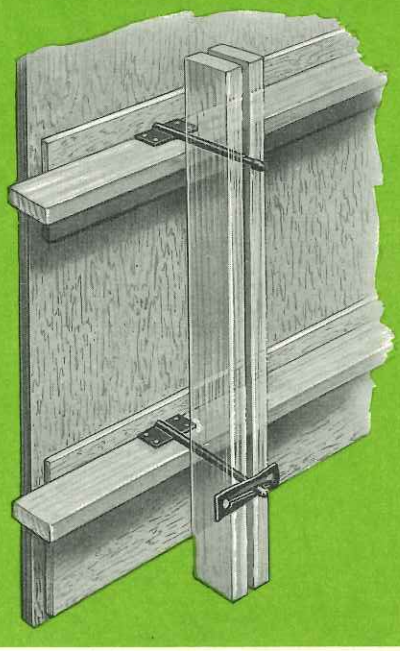
Miscellaneous
- Anchor Slot and Anchors
- Prescon Hangers
- Beam Clamps
- Standard Adjustable Screed Chairs
- Reed Clip
- Bar Supports For Reinforcing Steel
- Individual and Continuous Dowel Bar Supports

Printed in U.S.A.

For High Walls

VERTICAL ALIGNMENT BRACKET

Vertical alignment for high walls is easily accomplished with a simple Vertical Alignment Bracket, as shown. The same bracket is used for either double 2 x 4 or double 2 x 6 vertical liners. A standard SUPERIOR tie holder holds the vertical liner tightly against the horizontal liners.



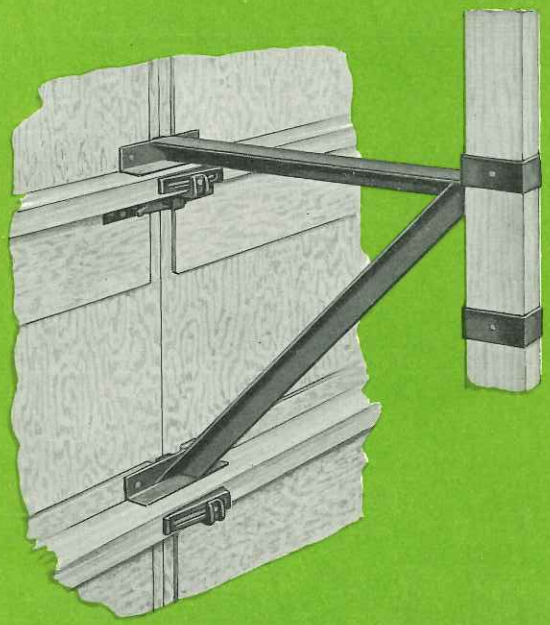
For Additional Savings

ASSEMBLE YOUR OWN ALL-PLY PANELS

If desired, All-Ply panels may be purchased knocked-down to provide work for the contractor's crew during inclement weather or slack periods.

SCAFFOLD BRACKET

Designed for use with All-Ply Panels, this sturdy bracket, which fastens to the form in a few seconds, provides strength and safety. Scaffolding costs will be kept at a minimum by using this bracket.



SUPERIOR Concrete Accessories, Inc., 9301 King St., Franklin Park, Ill.
(A Suburb of Chicago)

NEW YORK OFFICE
1775 Broadway, N.Y. 19, N.Y.

HOUSTON OFFICE
4101 San Jacinto, Houston 4, Tex.

PACIFIC COAST PLANT
2100 Williams St., San Leandro, Calif.

Distributors Located in All Principal Cities